

Model : FA-11

Technical Specification:

- 1) Model : FA-11 (96x96x55mm)
- 2) Display: LCD 16*2
- 3) Input : NC or NO CONTACT
- 4) LED : INDICATION
 - 1) AUDIO ALARM
 - 2) VISUAL ALARM
 - 3) M/C OUTPUT
- 5) OUTPUT:
 - 1) AUDIO ALARM RELAY
 - 2) VISUAL ALARM RELAY
 - 3) M/C OUTPUT RELAY
- 6) POWER SUPPLY: 90-270V AC , 50/60 Hz SMPS

Description of the fault Annunciator :

- 1) When plant starts initially, instrument will start sensing fault after the 5 Second delay. Delay is required to allow all fault signals to get in to set mode.
- 2) The instrument will constantly monitor all the faults that are preset during the plant operation.
- 3) Fault logic is selectable by OPEN signal or CLOSE signal by user.

In Case of HARD Fault, which indicates higher risk :

- 1) The Plant will trip immediately.
- 2) Fault message will be display on LCD panel.
- 3) Generate audio-alarm and visual alarm (Tower Light flashing).
- 4) Facility for operator only to stop audio alarm.
- 5) After the fault is solved, Press key & key to Restart the plant

In Case of SOFT Fault

- 1) The Plant will not trip immediately.
- 2) Fault message will be display on LCD panel.
- 3) Generate audio-alarm and visual alarm (Tower Light flashing).

* In Case the Fault is Solved in 5 Minutes or less :

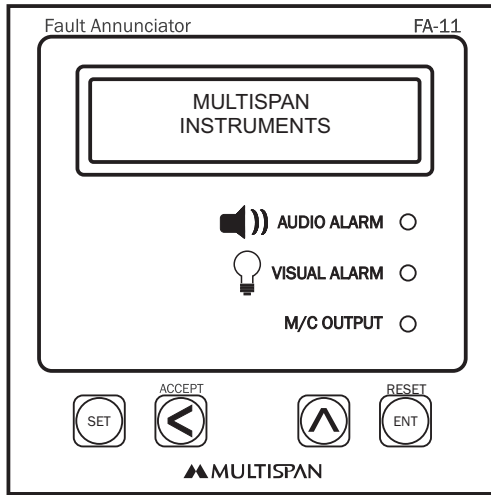
- 1) Display will show NORMAL message.
- 2) Visual alarm signal will be OFF.

* In Case the Fault is Not Solved in 5 Minutes or less :

- 1) Plant will Trip
- 2) Generate audio-alarm and visual alarm (Tower Light flashing).
- 3) Facility for operator only to stop Audio alarm.
- 4) After the fault is solved, Press key & key to Restart the plant

WORKING:

Normal Condition:



FAULT INPUTS (NORMAL)

- 1 LOW VOLTAGE
- 2 HIGH VOLTAGE
- 3 OVER CURRENT
- 4 MOTOR TEMP HIGH
- -----
- N OVER TRAVEL

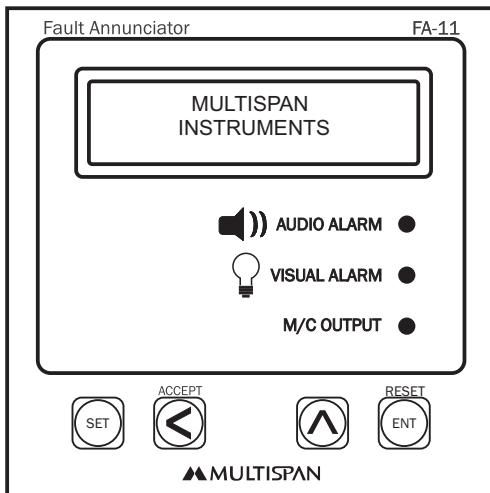
OUTPUTS



Action	Fault Input	Audio Output	Visual Output	Machine Output	Message on LCD Display
No Action	All Inputs Shorted	OFF	OFF	Relay OFF (Plant ON)	NORMAL

HARD FAULT

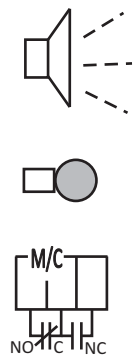
Fault in Input-1



INPUTS (FAULT IN CH-1)

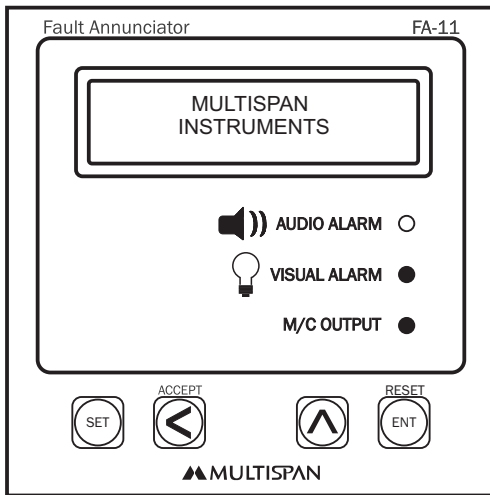
- 1 LOW VOLTAGE
- 2 HIGH VOLTAGE
- 3 OVER CURRENT
- 4 MOTOR TEMP HIGH
- -----
- N OVER TRAVEL

OUTPUTS



Action	Fault Input	Audio Output	Visual Output	Machine Output	Message on LCD Display
No Action	Inputs-1 Open	ON	Flashing	Relay ON (Plant OFF)	1.LOW VOLTAGE

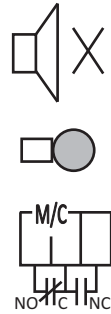
Acknowledge (ACCEPT) the Fault



INPUTS (FAULT ACCEPT)

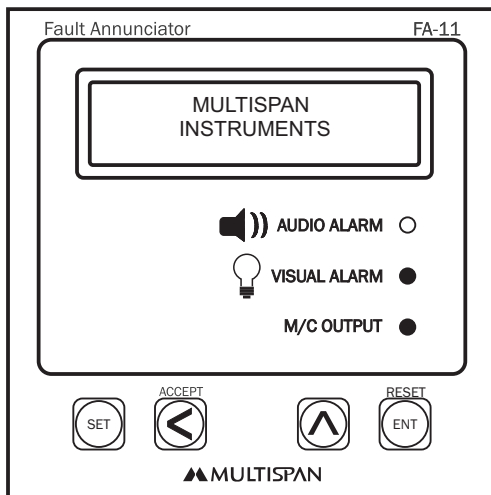
- | 1 LOW VOLTAGE
- | 2 HIGH VOLTAGE
- | 3 OVER CURRENT
- | 4 MOTOR TEMP HIGH
- | -----
- | N OVER TRAVEL

OUTPUTS



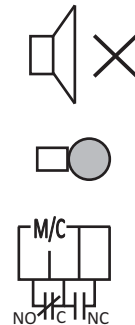
Action	Fault Input	Audio Output	Visual Output	Machine Output	Message on LCD Display
Press Accept switch	Inputs-1 Open	OFF	ON	Relay ON (Plant OFF)	1. LOW VOLTAGE

Fault Clear



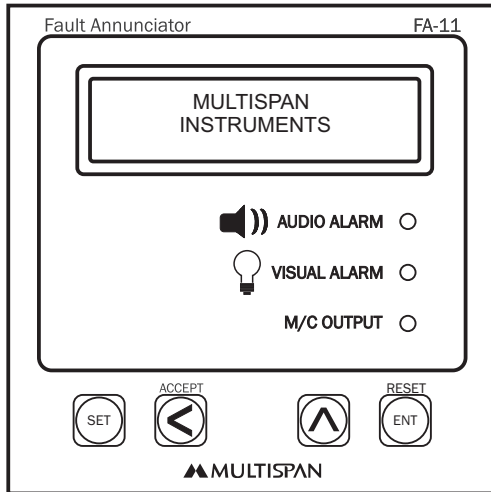
INPUTS (FAULT ACCEPT)

- | 1 LOW VOLTAGE
- | 2 HIGH VOLTAGE
- | 3 OVER CURRENT
- | 4 MOTOR TEMP HIGH
- | -----
- | N OVER TRAVEL



Action	Fault Input	Audio Output	Visual Output	Machine Output	Message on LCD Display
No Action	All Inputs Shorted	OFF	ON	Relay ON (Plant OFF)	RESET THE FA-11

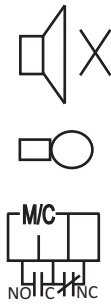
RESET THE ANNUNCIATOR:



INPUTS (FAULT ACCEPT)

- ✂ 1 LOW VOLTAGE
- ✂ 2 HIGH VOLTAGE
- ✂ 3 OVER CURRENT
- ✂ 4 MOTOR TEMP HIGH
- ✂ -----
- ✂ N OVER TRAVEL

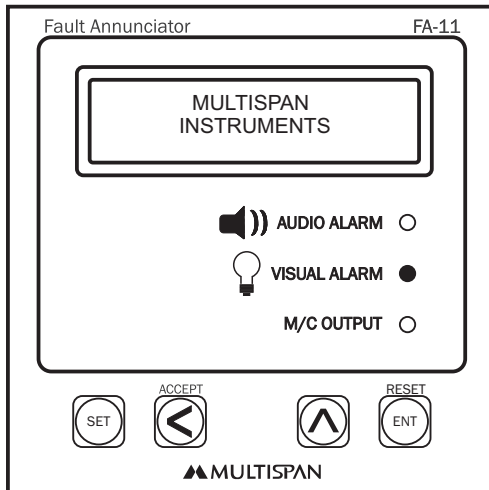
OUTPUTS



Action	Fault Input	Audio Output	Visual Output	Machine Output	Message on LCD Display
Press Reset switch	All Inputs Shorted	OFF	OFF	Relay OFF (Plant ON)	NORMAL

SOFT FAULT:

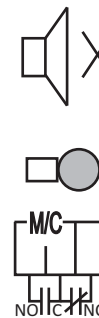
FAULT IN INPUT-3



INPUTS (FAULT ACCEPT)

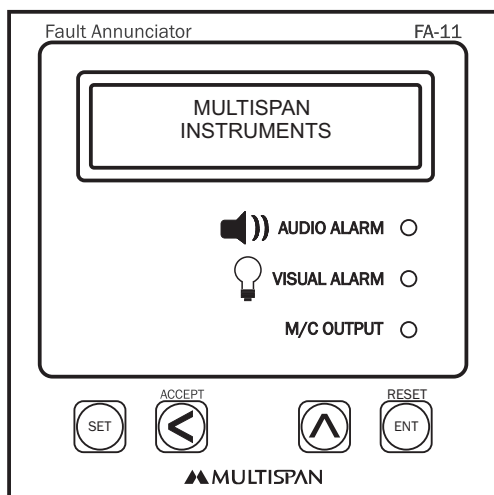
- ✂ 1 LOW VOLTAGE
- ✂ 2 HIGH VOLTAGE
- ⎓ 3 OVER CURRENT
- ✂ 4 MOTOR TEMP HIGH
- ✂ -----
- ✂ N OVER TRAVEL

OUTPUTS



Action	Fault Input	Audio Output	Visual Output	Machine Output	Message on LCD Display
No Action	Inputs-3 Open	OFF	Flashing	Relay OFF (Plant ON)	3. OVER CURRENT

IF FAULT RECOVERED BEFORE 5 MINUTES:



FAULT INPUTS (NORMAL)

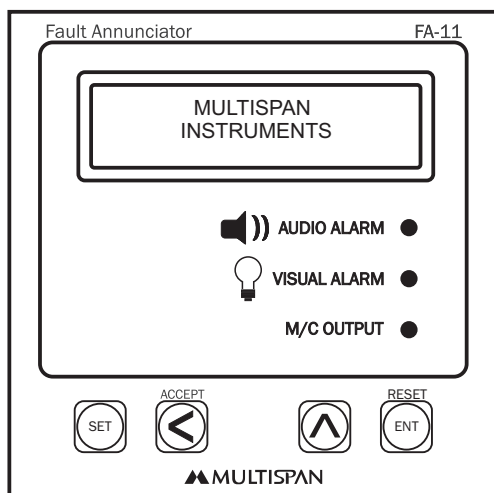
- ✘ 1 LOW VOLTAGE
- ✘ 2 HIGH VOLTAGE
- ✘ 3 OVER CURRENT
- ✘ 4 MOTOR TEMP HIGH
- ✘ -----
- ✘ N OVER TRAVEL

OUTPUTS



Action	Fault Input	Audio Output	Visual Output	Machine Output	Message on LCD Display
No Action	All Inputs Shorted	OFF	OFF	Relay OFF (Plant ON)	NORMAL

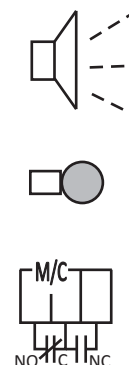
IF FAULT IS NOT RECOVERED IN 5 MINUTES:



(FAULT IN CH-1)

- ✘ 1 LOW VOLTAGE
- ✘ 2 HIGH VOLTAGE
- ⊢ 3 OVER CURRENT
- ✘ 4 MOTOR TEMP HIGH
- ✘ -----
- ✘ N OVER TRAVEL

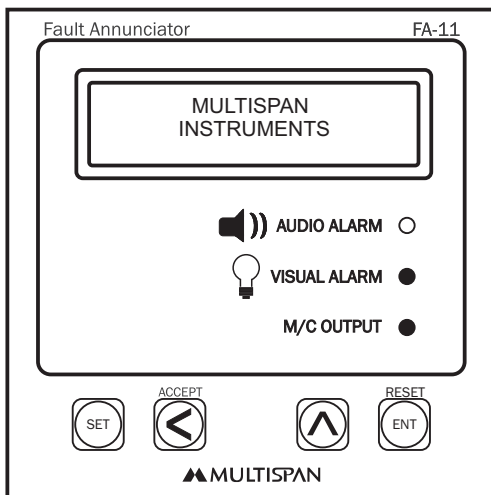
OUTPUTS



Action	Fault Input	Audio Output	Visual Output	Machine Output	Message on LCD Display
No Action	Inputs-3 Open	ON	Flashing	Relay ON (Plant OFF)	3.OVER CURRENT

ACKNOWLEDGE (ACCEPT) THE FAULT

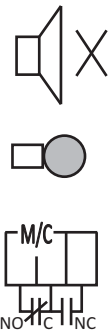
FAULT IN INPUT-3



INPUTS (FAULT IN CH-1)

- ✂ 1 LOW VOLTAGE
- ✂ 2 HIGH VOLTAGE
- ✂ 3 **OVER CURRENT**
- ✂ 4 MOTOR TEMP HIGH
- ✂ -----
- ✂ N OVER TRAVEL

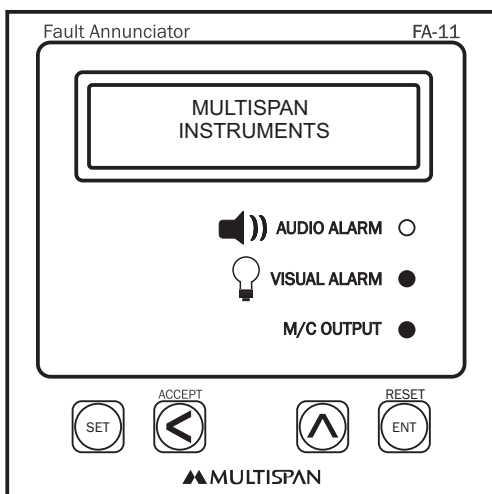
OUTPUTS



Action	Fault Input	Audio Output	Visual Output	Machine Output	Message on LCD Display
PRESS ACCEPT SWITCH	Inputs-3 Open	OFF	ON	Relay ON (Plant OFF)	3.OVER CURRENT

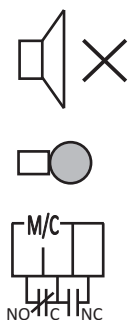
NOTE : Accept is also available at back Terminal

Fault Clear



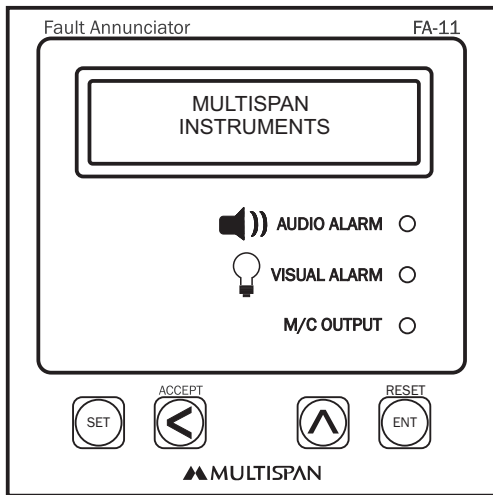
INPUTS (FAULT ACCEPT)

- ✂ 1 LOW VOLTAGE
- ✂ 2 HIGH VOLTAGE
- ✂ 3 OVER CURRENT
- ✂ 4 MOTOR TEMP HIGH
- ✂ -----
- ✂ N OVER TRAVEL



Action	Fault Input	Audio Output	Visual Output	Machine Output	Message on LCD Display
No Action	All Inputs Shorted	OFF	ON	Relay ON (Plant OFF)	RESET THE FA-11

RESET THE ANNUNCIATOR:



INPUTS (FAULT ACCEPT)

- ✱ 1 LOW VOLTAGE
- ✱ 2 HIGH VOLTAGE
- ✱ 3 OVER CURRENT
- ✱ 4 MOTOR TEMP HIGH
- ✱ -----
- ✱ N OVER TRAVEL

OUTPUTS



Action	Fault Input	Audio Output	Visual Output	Machine Output	Message on LCD Display
Press Reset switch	All inputs shorted	OFF	OFF	Relay OFF (Plant ON)	NORMAL

NOTE : Reset is also available at back Terminal

Fault Report:

- Press + Key for 4 sec. to go to fault REPORT MODE.
- Display will show Number of Fault & Number of Time that fault occurs.

For Example :

No. Of Fault : 03
No. Of Time : 04

Note : Press Key to change No. of Fault.

Note : Press Key for Display DATE & TIME of fault History for particular fault Number.

For Example :

DT-19 : 03 F-04
TM: 14:14:46

Note : DATE (DT)- 19:03(DD:MM).

TIME (TM)- 14:14:46(HR : MIN : SEC).

NUMBER of Times Fault occur (F-04):it will be auto shifted

For Clear all Fault

To Clear all Faults Press key and Then Power on the instrument.

Press key + Power On

ALL FAULT CLEAR
PRESS ENTER KEY

Press key

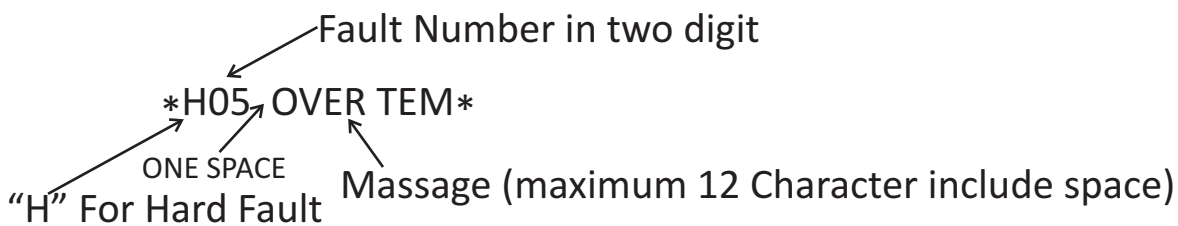
MULTISPAN
INSTRUMENT

(Normal Display)

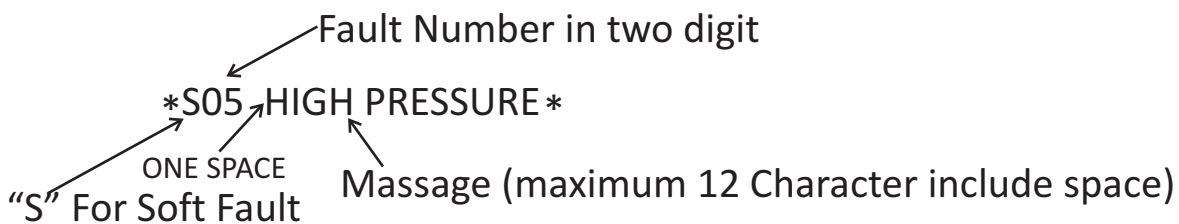
Rear Panel:

- Wire connectors are provided for the wiring purpose for power input, alarms, machine output and 10 number of faults.
- All 10 Faults can be programmable as hard fault and Soft fault at site by using RS-232 Communication.
- In Normal Condition, Default message on Display is “Normal” you can change This message by using RS-232
- For Defining Fault as hard fault and soft fault terminal software used .

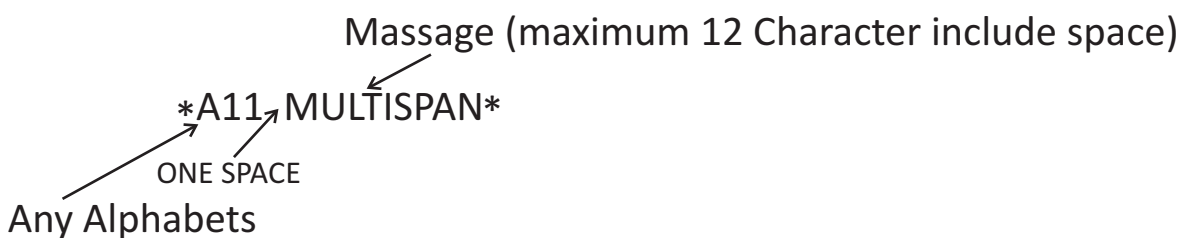
Example for Defining Hard Fault



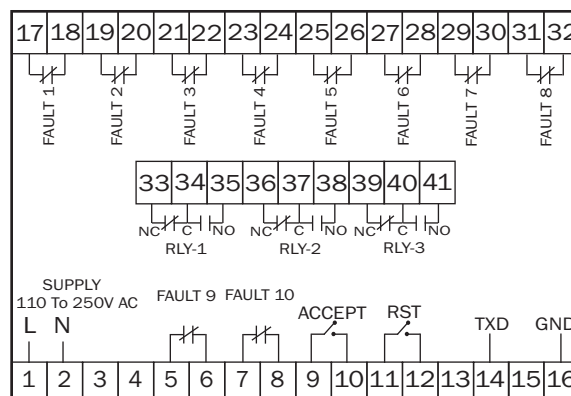
Example for Defining soft Fault



Example: for Display in Normal Condition



Connection Diagram:



Product improvement and upgrade is a constant procedure. So for more updated operating information and support, please contact our Helpline : 079-22770865 or Email at marketing@multispanindia.com